(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau





(43) International Publication Date 14 August 2003 (14.08.2003)

PCT

(10) International Publication Number WO 03/066195 A1

(51) International Patent Classification⁷: B01D 45/12, B04C 3/00

(21) International Application Number: PCT/NO03/00029

(22) International Filing Date: 31 January 2003 (31.01.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20020619

8 February 2002 (08.02.2002) NO

(71) Applicant (for all designated States except US): NORSK HYDRO ASA [NO/NO]; N-0240 Oslo (NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GRAMME, Per [NO/NO]; Steinringen 12, N-3931 Porsgrunn (NO).

(74) Agent: HOFSETH, Svein; Norsk Hydro ASA, N-0240 Oslo (NO).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: EVICE FOR THE TRANSFORMATION OF GAS/LIQUID FLOW TO LAMINAR OR STRATIFIED FLOW

1. 6. 7.

(57) Abstract: A device in connection with a pipe (1) for transformation of dispersed gas/liquid flow into laminar stratified flow. The solution involves a first set of stationary guide blades (6) being arranged in the pipe (1) and being designed to rotate the liquid/gas flow. The pipe (1) is, in turn, connected to a second pipe (2) with the same or a different diameter and, in the transition between the pipe (1) and the second pipe (2), there is a second set of blades or a device (8) that is designed to stop the rotation of the gas. The natural flow pattern of the gas/liquid in the second pipe (2) then becomes stratified over a predefined distance.

03/066195 A1